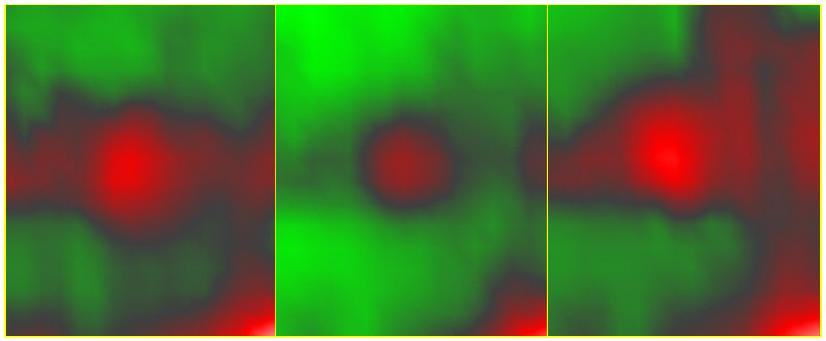
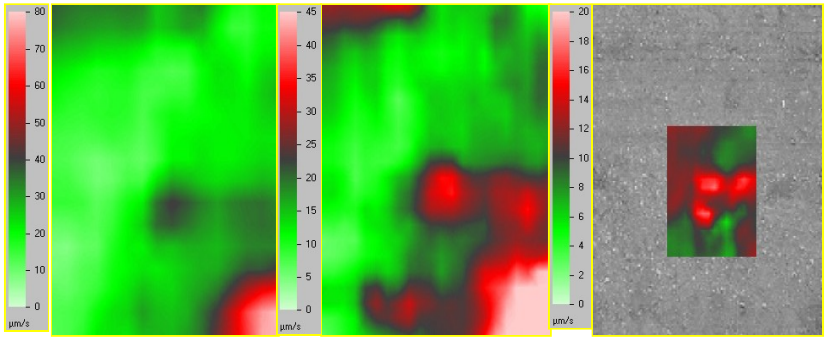
False Indicators to Acoustic/ Seismic Buried Landmine Detection

Field Test Observations



110 -130 Hz **120 -140 Hz** **130 -150 Hz**

Mine target as a function of excitation frequency



114 points/m² **215 points/m²** **1024 points/m²**

False target as a function of spatial resolution

Objective

Enhanced understanding of the mechanisms responsible for false indications in acoustic/seismic landmine detection

Approach

- Statistical analysis of field data
- Investigate effects of soil property
- Investigate nonlinear coupling effects

Payoff

- Possibly more precise target classification, or…
- Quantification of the limits to correct target classification using acoustic-to-seismic mine detection

Principal Investigator

University of Mississippi.

Status

New Start